

CLAIMS

1. Recombinant conglutinin comprising a native conglutinin fragment, wherein said recombinant conglutinin comprises a collagen region having two units of amino acids sequence of Gly-Xaa-Xaa (SEQ ID NO. 3), a neck region of the native conglutinin and a carbohydrate recognition domain of the native conglutinin, and 2nd and 3rd amino acids in said amino acid sequence of Gly-Xaa-Xaa are protein-constituting amino acid.
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2. A method for producing the recombinant conglutinin comprising a native conglutinin fragment comprising the steps of:
- (a) preparing a vector inserted thereinto cDNA corresponding to 613 bp through 10 1113 bp of the native conglutinin DNA,
- (b) obtaining transformants by introducing said vector into *Escherichia coli* JM109,
- (c) incubating said transformants in an appropriate medium,
- (d) infecting said incubated transformants with phage, and
- 15 (e) collecting recombinant conglutinin from the phage-infected transformants, wherein said recombinant conglutinin comprises a collagen region having two units of amino acids sequence of Gly-Xaa-Xaa (SEQ ID NO. 3), a neck region of the native conglutinin and a carbohydrate recognition domain of the native conglutinin, and 2nd and 3rd amino acids in said amino acid sequence of Gly-Xaa-Xaa are protein-constituting amino acid.
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3. A method for detecting an anti-virus activity of the collectins comprising the steps of:
- (a) preparing cells infected with virus(es),
- (b) co-presenting the infected cells with the collectins, and
- 25 (c) evaluating an inhibition level on budding of viruses in said cells.

4. The method for detecting the anti-virus activity according to the claim 3, wherein said collectins are materials selected from the group consisting of the mannan-binding protein (MBP), the human mannan-binding protein (hMBP), the conglutinin and the recombinant conglutinin.

5 5. The method for detecting the anti-virus activity according to the claim 3 or 4 wherein said virus is Influenza A virus.

6. Mannan-binding protein (MBP) having anti-Influenza A virus activity.

7. Human Mannan-binding protein (hMBP) having anti-Influenza A virus activity.

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